Amendments to Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-15. (canceled)

- 16. (previously presented) A hemofiltration system for treating an inflammatory mediator related disease of a mammal, the system comprising:
- a first conduit adapted to direct a blood stream from the mammal to a hemofilter, the hemofilter adapted to remove an ultrafiltrate from the blood stream so as to create a filtered blood stream and an ultrafiltrate stream, the hemofilter having a molecular weight exclusion limit of greater than or equal to 69,000 Daltons;
- a second conduit adapted to direct the filtered blood stream from the hemofilter back to the mammal:
- a third conduit adapted to direct the ultrafiltrate stream from the hemofilter to an adsorptive device.
- the adsorptive device adapted to receive the ultrafiltrate stream, to contact the ultrafiltrate stream with an adsorbent material, and to output a post adsorption ultrafiltrate stream after removing at least one inflammatory mediator; and
- a fourth conduit adapted to receive the post adsorption ultrafiltrate stream from the adsorptive device and to direct the post adsorption ultrafiltrate back to the mammal.
- 17. (previously presented) A hemofiltration system according to Claim 16 wherein the fourth conduit merges with the second conduit so as to combine at least a portion of the post adsorption ultrafiltrate stream with the filtered blood stream to thereby return a combined stream to the mammal.
- 18. (previously presented) A hemofiltration system according to Claim 16, wherein the hemofilter is operable to sieve albumin to the ultrafiltration stream.

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19. (currently amended) A hemofiltration system according to Claim 16, further comprising a fifth conduit adapted to divider for splitting the ultrafiltrate stream and into a waste stream and a return stream.

- 20. (currently amended) A hemofiltration system according to Claim 19, further comprising a waste container for collecting the waste stream.
- 21. (previously presented) A hemofiltration system according to Claim 19, wherein the divider is a three-way joint.
- 22. (previously presented) A hemofiltration system according to Claim 16, wherein the hemofilter comprises a material selected from the group of polysulfone, polyacrylonitrile, polymethylmethacrylate, polyvinyl-alcohol, polyamide, polycarbonate, and cellulose derivatives.
- 23. (previously presented) A hemofiltration system of Claim 16, wherein the adsorbent material is selected from a group consisting of activated charcoal, uncharged resins, charged resins, silica, immobilized polymyxin B, anion exchange resin, cation exchange resin, neutral exchange resin, polysulfone, polyacrylonitrile, polymethylmethacrylate, polyvinyl-alcohol, polyamide, polycarbonate, cellulose derivatives, immobilized monoclonal antibodies, immobilized IM receptors, immobilized specific antagonists, and any combination thereof.
- 24. (previously presented) A hemofiltration system of Claim 16, wherein the adsorbent material is comprised of adsorbent resins selected from a group consisting of immobilized polymyxin B, polystyrene-derivative fibers, cation exchange resins, neutral exchange resins, anion exchange resins, cellulose materials, polysulfone, polyacrylonitrile, polymethylmethacrylate, polyvinyl-alcohol, polyamide, polycarbonate, cellulose derivatives, specific antibody coated materials, specific antagonist coated materials, and any combination thereof.